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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,197	08/21/2003	Hideo Ohira	501152.20020	7088
7	7590 01/09/2006		EXAMINER	
Eugene LeDonne			FAISON, VERONICA F	
Reed Smith, L	LP		ART UNIT	PAPER NUMBER
29th Floor				TATERNOMBER
599 Lexington Avenue			1755	
New York, NY 10022			DATE MAILED: 01/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/645,197	OHIRA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Veronica F. Faison	1755			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION. 136(a). In no event, however, may a red will apply and will expire SIX (6) MON to the cause the application to become AB	CATION. pply be timely filed THS from the mailing date of this communic ANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 21 2a)□ This action is FINAL . 2b)⊠ Th 3)□ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matt		s is		
Disposition of Claims					
4) ⊠ Claim(s) <u>1,3-5 and 8-19</u> is/are pending in the 4a) Of the above claim(s) <u>4 and 9-14</u> is/are w 5) ⊠ Claim(s) <u>5</u> is/are allowed. 6) ⊠ Claim(s) <u>1,3,8,15,16,17 and 19</u> is/are rejecte 7) ⊠ Claim(s) <u>18</u> is/are objected to. 8) □ Claim(s) <u></u> are subject to restriction and	ithdrawn from consideration				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomplished and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the second sec	ccepted or b) objected to be drawing(s) be held in abeyar bection is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.12			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application (PTO-152)			

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DETAILED ACTION

Response to Amendment

Claims 1, 4, 5 have been amended, claims 15-19 have been added and claims 5 and 6 have been canceled. Hence, claims 1-5,8 and 15-19 (claims 4, 9-14 are withdrawn) are pending in the application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 8, 15-17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blease et al (US Patent 6,585,362).

Blease et al disclose an ink composition comprising a colorant and an aqueous carrier wherein the ink composition has a dissolved gas content of less than 3 ppm as measured on the basis of the amount of dissolved oxygen gas at 20°C and a static surface tension at 25°C of greater than 34 dynes/cm (34 mN/m) (abstract and col. 3 lines 41-49). The colorant present in the composition may be a water-soluble dye, a pigment or any other type of colorant (col. 3 line 50+). The reference further discloses that the aqueous carrier is water or a mixture of water and at least one water miscible co-solvent (col. 5 lines 10-12). A surfactant may be added to the ink to adjust the surface tension to an appropriate level, wherein the surfactant is present in the amount

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of 0.01 to 1 percent by weight (col. 6 lines 31-36). The reference further discloses that the typical ink composition comprises 0.05 to 20 percent by weight of colorant, 20 to 95 percent by weight of water, 5 to 70 percent by weight of humectant, 2 to 20 percent by weight of co-solvent, 0.1 to 10 percent by weight of surfactant, 0.05 to 5 percent by weight of biocide and 0.1 to 10 percent by weight of pH control agents (col. 6 lines 61-66). The reference discloses that the ink composition is degassed prior to filling. During the degassing process, ink is pumped to a degassing unit and cycled until the ink reaches the desired gas level. The degassing unit may incorporate known mechanisms for removing dissolved gases from an ink. These methods include but are not limited to physical processes such as boiling and evacuation, and chemical processes such as incorporating gas absorbents in the ink composition (col. 14 lines 46-64). The ink is incorporated into a collapsible bag to allow the low level of dissolved gas ink the ink composition to be maintained during printing (col. 14 line 65-col. 15 line 10).

A prima facie case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same properties. *Titanium Metals Corp. of America v. Banner*, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985).

Allowable Subject Matter

Claim 5 is allowed.

The following is an examiner's statement of reasons for allowance:

The references alone or in combination fail to teach a vacuum thin film deoxidation method.

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than the payment of the issue fee and, to avoid processing delays, should preferably

Any comments considered necessary by applicant must be submitted no later

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Claim 18 is objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject

matter: The references alone or in combination fail to teach a vacuum thin film

deoxidation method.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Veronica F. Faison whose telephone number is 571-

272-1366. The examiner can normally be reached on Monday-Thursday and alternate

Fridays 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VFF 1-3-06

SUPERVISORY PATENT EXAMINER